

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 January 2001 (25.01.2001)

PCT

(10) International Publication Number
WO 01/05729 A1

- (51) International Patent Classification⁷: C05F 17/00, 17/02, C02F 3/30
- (21) International Application Number: PCT/AU00/00865
- (22) International Filing Date: 20 July 2000 (20.07.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PQ 1740 20 July 1999 (20.07.1999) AU
- (71) Applicant (*for all designated States except US*): **ORGANIC RESOURCE TECHNOLOGIES LTD.**
[AU/AU]; Unit 11, 4-8 Queen Street, Bentley, W.A. 6102 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **RUDAS, Tomasz**
[AU/AU]; Unit 11, 4-8 Queen Street, Bentley, W.A. 6102 (AU).
- (74) Agent: **TURONEK, Mary, Louise; Lord & Company, 4**
Douro Place, West Perth, W.A. 6005 (AU).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— *With international search report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **AN ORGANIC WASTE MATERIAL TREATMENT PROCESS**

(57) Abstract: An organic waste material treatment process comprising subjecting the organic waste material to conditions under which anaerobic digestion occurs followed by conditions under which aerobic composting occurs. Preferably, the organic waste material is pre-conditioned before anaerobic digestion by subjecting the organic waste material to aerobic composting conditions to facilitate a rise in temperature of the organic waste material. The treatment process is conducted in a single vessel, wherein air and water are evenly distributed to the contents of the vessel. A plurality of vessels may be interconnected, such that water may be extracted from one vessel, whose contents have undergone anaerobic digestion, then recirculated to an interconnected vessel to facilitate conditions for anaerobic digestion of the contents of the interconnected vessel.

20010729A1

WO 01/05729 A1